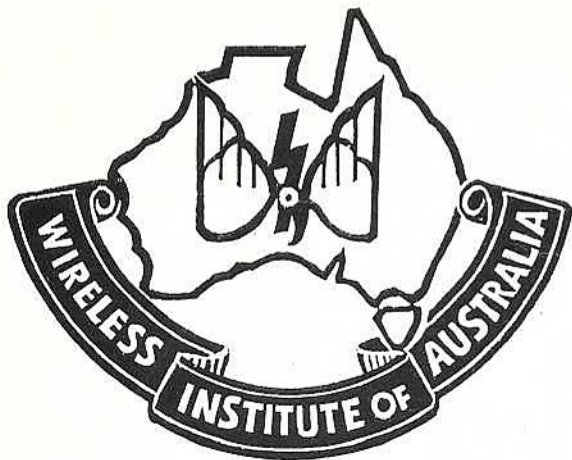
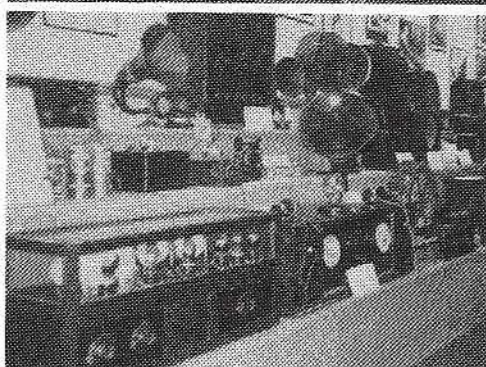
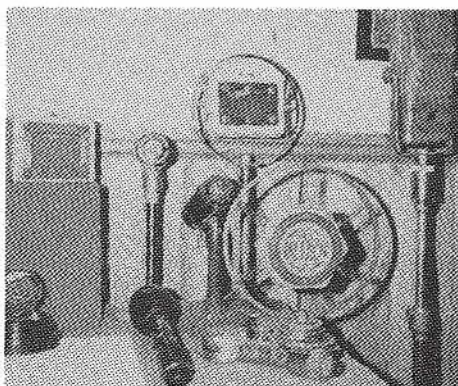


March 1989



B·A·R·G NEWS



© Monthly Newsletter of the
Ballarat Amateur Radio Group

BALLARAT AMATEUR RADIO GROUP INCORPORATED

OFFICERS 1988-1989

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			HOME	BUSINESS
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Technical Officer:	DICK ANTOZIEWICZ	VK3 AEX	32 3273	31 1818
Memb. Representative:	NEAL DAVIDSON	VK3 KQQ	35 9612	

OFFICERS AND COMMITTEES

Newsletter Editors:	BOB TERRILL	VK3 BNC	39 5317	39 1001
	HARRY HEKKEMA	VK3 KGL	35 7563	39 1011
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	DICK ANTOZIEWICZ	VK3 AEX	32 3273	31 1818
	GEOFF SMITH	VK3 ADB	33 2112	
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	MAURIE BATT	VK3 XEX	42 2245	
	PHIL SEDDON	VK3 AQM	31 5220	
	MURRAY FELSTEAD	VK3 AAI	41 2234	

B.A.R.G. meets on the LAST FRIDAY in every month except December at the Ballarat Education Centre,
Hopetoun St., Ballarat at 7.30 p.m.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30 p.m.
Executive committee members are expected to attend and any club member with business for discussion is welcome.

All correspondence to: The Secretary, BARG Inc., P.O. Box 216E, Ballarat East, 3350.

Applications for Awards to: Maurie Batt, RSD, Rokewood Junction, 3351.



CNR. RING RD. & WESTERN HWY BALLARAT
(OPEN 10AM - 5 PM 7 DAYS A WEEK)

FEATURES

- GRAMOPHONES • VINTAGE RADIOS • VISITORS PARTICIPATION
- MEMORABILIA • AUDIO DISPLAYS • DEMONSTRATIONS • CRYSTAL SETS

The "Orpheus Radio Museum" is operated by Richard and Sonja Wilson.
The collection includes their private collection, the 3BA collection and other items on loan to the museum.
The museum is run with the idea of preserving the history of radio in Australia and making it accessible to the public.
If anyone has any information or items of interest to the museum, would they please contact, or write to, the "Orpheus Radio Museum" RSD B98, Ballarat 3352. Telephone (053) 34 2513.
Let the public enjoy your piece of Radio History.

MEETING OPENED By President John at 7.50pm with 22 members present,
John welcomed Mark DYY the guest speaker for the evening
and also expressed the condolence of the members to
Kevin WN on the loss of his Father.

APOLOGIES VK3 CUH, KIT, PAP, NIA, AAP.

MINUTES of previous meeting as printed in Newsletter were confirmed. PUW/PUJ.

CORRESPONDENCE WIA Midland Zone notification of Convention on 19th March.

TREASURERS REPORT General a/c \$245.10. VS&L a/c \$3198.46.
Accounts for payment \$176.84 passed for payment. KGL/BNC.

QSL MANAGER Jeff reported 420 cards in and 420 cards out.

CLUB NET Fred KQF would like more members to take part. 3610 Thursdays 8.30pm

EDUCATION The Novice course has started at BRACE with 7 starters.

TECHNICAL RGV at Shepparton is breaking into REA. Committee to investigate.

NEWSLETTER 50 copies were sent out to non member amateurs.

AWARDS Moved KQF seconded CAZ that the price of awards be changed to
Goldrush \$3.00 Western Zone \$2.00 DX Widows free with applications
for the other two.

WICEN. Gordon PUW reported that operators are required for the GM Car Rally
at Bright on 23rd and 24th April. All expenses paid.
It is proposed that WICEN members of the Club hold a practice exercise.

JOHN MOYLE CONTEST The Club will be operating portable stations at Rokewood.

MEETING CLOSED at 9.00pm and after a short coffee break the members were
entertained to a most interesting talk on the Bionic Ear
given by Mark DYY.

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NEXT BARG MEETING is on March 31st 7.30pm at the Education Centre.

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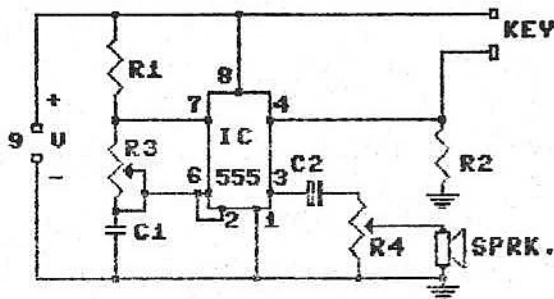
89/03 4

Morse Code Practice Oscillator.

BY

Stan *** VK3SE

This oscillator has tone and volume controls. Tone control is useful to adjust tone to suit individual learners. It can also be used as a continuity tester. Can be build on a PCB board to suit circuit or on a piece of VERO board.



PARTS REQUIRED

- R1 - 2.2K ohm
- R2 - 10 K ohm
- R3 - 470 K ohm Pot. (Tone control)
- R4 - 100 ohm Pot. (Volume control)
- C1 - 0.01 uF capacitor
- C2 - 10 uF Electro. cap.
- IC - 555
- SPRK - Any low impedance type
- 9 V. Battery

** FOR SALE **

30 Amp. Power supply Kit. Variable output. 600 VA Transformer, PCB., Transistors etc. \$ 235.00.

DSE Monoband Transceiver 3.5 MHz. 30 W. P.E.P. Suit Novice Operator. \$285.00.

APPLY STAN - VK3SE - PH. 322340.

INTERESTING FREQUENCIES FOR SIX METRE OPERATORS

28.885 MHz
49.750 MHz
50.005 MHz
50.0685 MHz
50.740 MHz
50.750 MHz
50.760
51.670 MHz
51.740 MHz
147.275 MHz

DX liason frequency
USSR Video carrier
H44 Beacon
K6FB Beacon
NZ TV Sound carrier
NZ TV Sound carrier
NZ TV Sound carrier
Toowoomba TV sound
Wagga Ch 0 Sound carrier
DX liason (Melbourne and Geelong)

Old broadcast receivers usually contain air-spaced, variable capacitors which are valuable in the amateur service. These capacitors are an essential part of an ATU, and knowing the precise value will allow you to design your tuning unit with much greater accuracy and increased efficiency.

This circuit was derived from the "AEM Technicalities" column, and provides excellent accuracy with all types of capacitors, polarised or not. The unit can measure capacitance between the values of 1pF to 1uF, in five ranges. The 1mA meter does not need rescaling, and the value can be read directly according to the range switch.

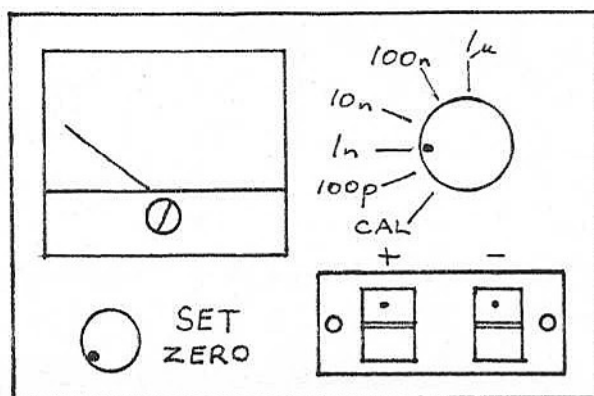
Position 1 on the range switch is for the initial calibration procedure. C3 must be a 1% high accuracy type, allowing FSD to be achieved by setting RV1. The other switch positions are as follows :

- | | |
|---|------------|
| 1 | calibrate |
| 2 | 100 pF FSD |
| 3 | 1 nF " |
| 4 | 10 nF " |
| 5 | 100 nF " |
| 6 | 1 uF " |

Naturally, to reduce stray capacitance, the leads between the range switch and the Cx terminals must be kept as short as possible.

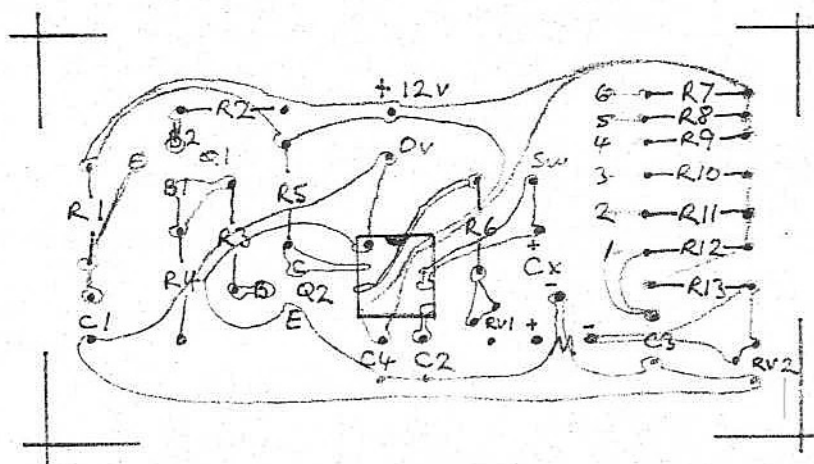
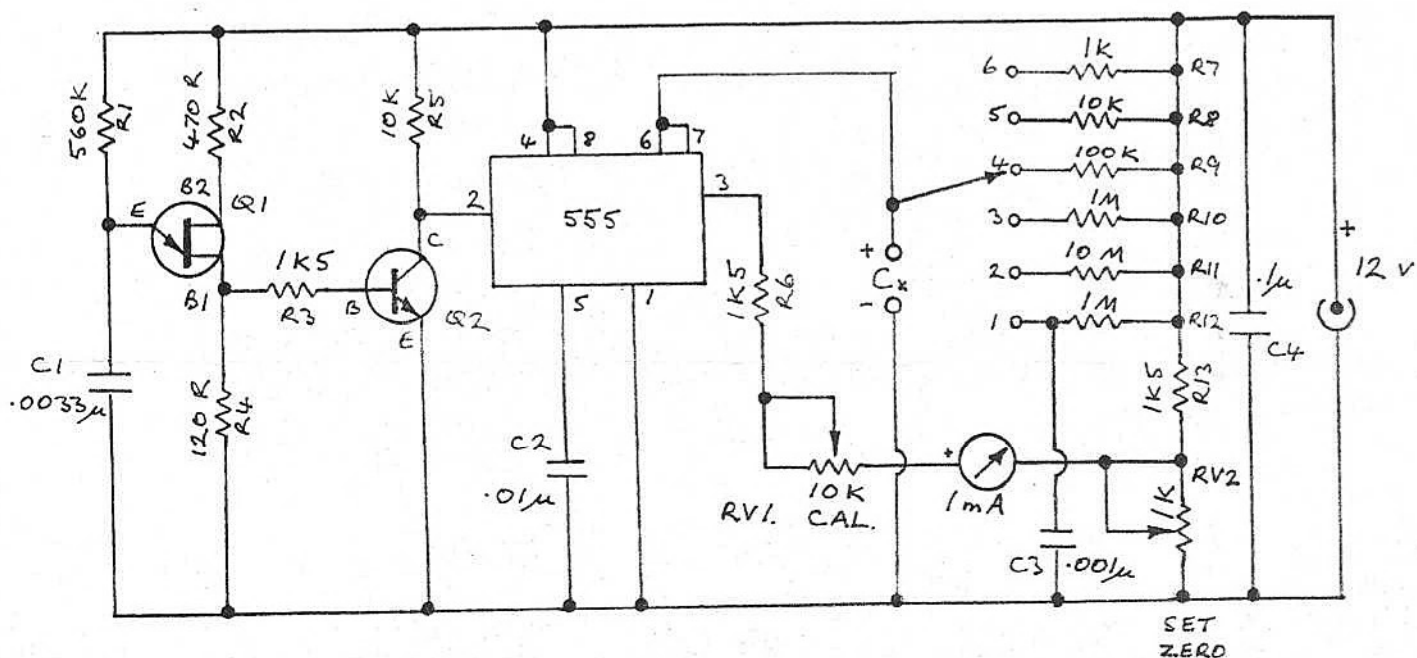
The unit was mounted in an UB3 zipy box where the PCB can be glued to the base. The terminals used for Cx are mono speaker terminals with a simple, spring-loaded, push button release.

Once you have completed the unit, apply power and switch to position 1. Adjust RV1 for FSD, first of all ensuring that RV2 is at the minimum value. Your capacitance meter is now ready for use, but remember - it will give more accurate readings if the test capacitor's leads are as short as possible.

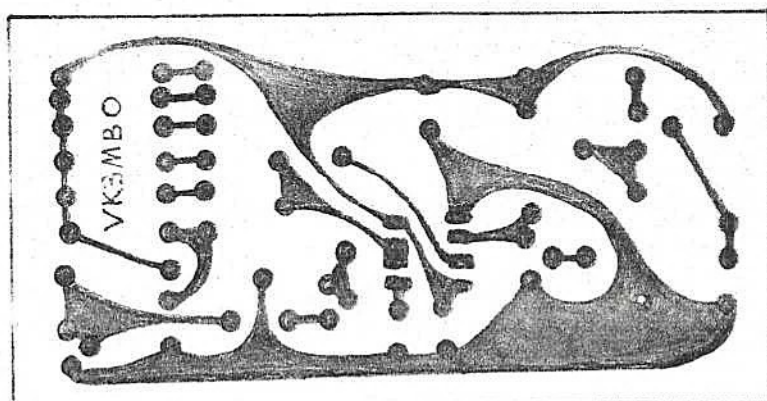


Suggested front panel

CAPACITANCE METER continued...



Component Overlay



Full size Copper Artwork

73 + Good Homebrew, here UK3MBC

89/03

7



WHERE WAS IT ?

WE WOULD LIKE SOME MORE
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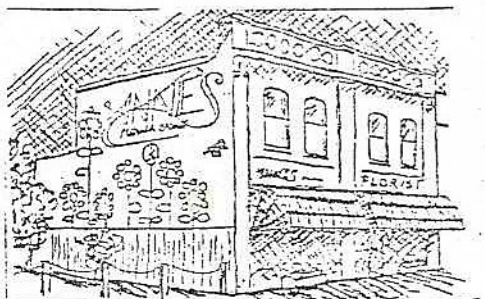
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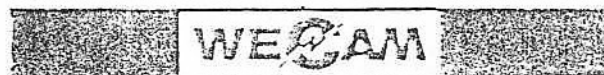
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